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# T A L E N T

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CLASSIFICATION TOP SECRET

ODE 4155

TOP SECRET CHESS

Date of Info 9 April 1960

PAR-582-60

16 April 1960

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## INTRODUCTION

DUE TO ATMOSPHERIC CONDITIONS, THE COVERAGE QUALITY OF THE PHOTOGRAPHY ON MISSION B 4155 RANGED FROM POOR TO GOOD. OVER-ALL CLOUD COVER WAS APPROXIMATELY 40 PERCENT, WITH THE HEAVIEST CONCENTRATION OVER THE ANDIZHAN AND TYURA TAM AREAS. RESOLUTION, CONTRAST, AND DENSITY WERE CONSIDERED GOOD IN THOSE AREAS NOT GREATLY AFFECTED BY WEATHER CONDITIONS.

THIS PRELIMINARY REPORT COVERS ITEMS OF IMPORTANT INTELLIGENCE SIGNIFICANCE IN RESPONSE TO REQUIREMENTS LEVIED BY THE INTELLIGENCE COMMUNITY.

## SUMMARY

COVERING A WIDE AREA BETWEEN THE FERGANA VALLEY, SEMIPALATINSK, AND THE ARAL SEA, MISSION B 4155 INCLUDES IN ITS PHOTOGRAPHIC RECORD THE FOLLOWING MAJOR ITEMS OF INTELLIGENCE INTEREST.

### GUIDED MISSILES AND ELECTRONICS

A NEW-TYPE LAUNCH AREA IS UNDER CONSTRUCTION AT TYURA TAM.

AN AREA OF SOME 8,000 SQUARE MILES BETWEEN LAKE BALKHASH AND DZHEZKAZGAN IS SEEN FOR THE FIRST TIME AND DISCLOSES MANY MISSILE-ASSOCIATED INSTALLATIONS. INCLUDED ARE INTERFEROMETER-TYPE INSTRUMENTATION SITES, NUMEROUS COMMUNICATIONS AND TRACKING FACILITIES, MISSILE LAUNCH AND SUPPORT AREAS, A LARGE DIRT STRIP (16,300 X 260 FT), AND OTHER UNIDENTIFIED INSTALLATIONS.

### AIRCRAFT AND AIRFIELDS

ONLY 13 AIRFIELDS WERE COVERED, 7 OF WHICH ARE MAJOR FIELDS. A TOTAL OF 251 AIRCRAFT WERE OBSERVED, INCLUDING 48 BOMBERS, 122 FIGHTERS, AND 81 OTHER TYPES.

TOP SECRET CHESS

ODE 4155

TOP SECRET CHESS

PAR-582-60

Date of Info 9 April 1960

16 April 1960

DETAIL

A. GUIDED MISSILES

SARY SHAGAN - DZHEZKAZGAN AREA

NUMEROUS GUIDED-MISSILE-ASSOCIATED ACTIVITIES HAVE BEEN LOCATED IN AN AREA OF SOME 8,000 SQUARE MILES EXTENDING FROM LAKE BALKHASH TO SARY SHAGAN AND ON TO DZHEZKAZGAN. THE COMPLEXITY OF THIS ENTIRE AREA COMPLICATED BY PARTIAL CLOUD COVER, WILL NECESSITATE CONSIDERABLE DETAILED ANALYSIS, USING ALL-SOURCE INTELLIGENCE, TO PUT TOGETHER A COMPOSITE INTELLIGENCE PICTURE.

WHILE NO ATTEMPT IS MADE HERE TO DESCRIBE OR LOCATE ALL THE INSTALLATIONS IN THIS LARGE AREA, SOME NOTION OF THE IMPORTANCE OF THIS COVERAGE CAN BE IMPARTED BY BRIEFLY LISTING INSTALLATIONS NOTED DURING THE PRELIMINARY SCAN MADE FOR THIS ODE. DETAILED STUDY OF THIS AREA COULD RESULT IN THE MOST PROVOCATIVE AND POSSIBLY THE MOST PRODUCTIVE RESULTS FROM ANY TALENT COVERAGE OF SOVIET MISSILE ACTIVITIES TO DATE.

SUBSTANTIVE BRIEFS ON MAJOR INSTALLATIONS WILL BE STARTED IMMEDIATELY AFTER THIS PRELIMINARY REPORT AND DISSEMINATED AS RAPIDLY AS POSSIBLE. NOT UNTIL THE FINAL READOUT HAS BEEN MADE WILL THE ROLES AND INTERRELATIONSHIPS OF THE INSTALLATIONS IN THIS AREA BE UNDERSTOOD.

THE FOLLOWING LIST SERVES ONLY AS AN INDICATOR OF THE NUMBER AND VARIETY OF INSTALLATIONS SEEN OVER A VAST PROBLEM AREA WHICH NOW CONFRONTS THE INTELLIGENCE COMMUNITY.

SARY SHAGAN AREA  
46 01 N - 73 30 E

1. AIRFIELD COMPLEX INCLUDING A CONCRETE RUNWAY, AN EXTREMELY LONG DIRT STRIP (16,300 X 260 FT), MISSILE ASSEMBLY AND CHECKOUT FACILITIES UNDER CONSTRUCTION, AND REVETTED STORAGE FACILITIES.
2. TWO STORAGE AREAS
3. ONE RADIO TRANSMITTING AREA
4. ONE RADIO RECEIVING AREA
5. LARGE HOUSING COMPLEX

TOP SECRET CHESS

Date of Info 9 April 1960

PAR-582-60

16 April 1960

6. ONE INTERFEROMETER



8. POSSIBLE SUPPORT AREA, PARTIALLY CLOUD COVERED

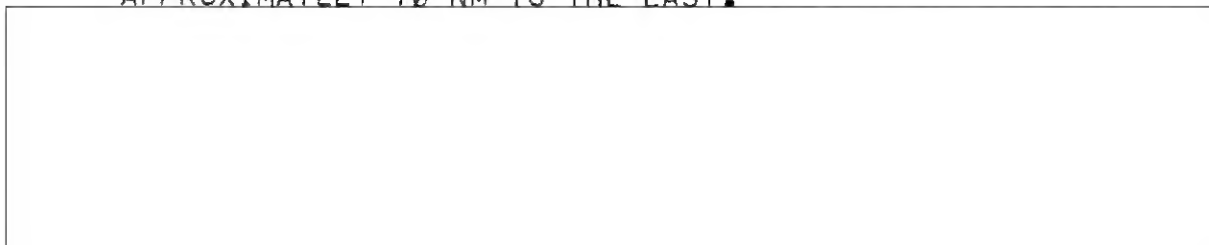
9. CONSTRUCTION SUPPORT AREAS

TWO DEGREE SQUARE AREA  
46 TO 48 N - 71 TO 73 E

1. GUIDED MISSILE LAUNCH COMPLEX

- A. LAUNCH AND SUPPORT AREA -- THIS AREA, PARTIALLY CLOUD COVERED, INCLUDES AT LEAST ONE LARGE LAUNCH PAD AND TWO LARGE SEMICIRCULAR PAVED AREAS MEASURING 200 TO 300 FEET IN DIAMETER. BUNKERS, A TALL TOWER, AND A DRIVE-THROUGH BUILDING ARE ALSO EVIDENT IN THIS AREA. THE SEMICIRCULAR AREAS MAY BE EITHER NEW-TYPE LAUNCH PADS OR ELECTRONIC CONFIGURATIONS.
- B. PROBABLE LANDING STRIP UNDER CONSTRUCTION WITH HOUSING SUPPORT AREA
- C. SEVERAL RADIO INSTRUMENTATION SITES
- D. QUARRY AND CONCRETE BATCH PLANT
- E. INTERFEROMETER-TYPE INSTRUMENTATION SITE UNDER CONSTRUCTION
- F. COMMUNICATIONS UNDER CONSTRUCTION, WITH A SUPPORT AREA AND MOBILE COMMUNICATIONS ALREADY IN EXISTENCE

ALL THESE FACILITIES ARE IN THE SAME GENERAL AREA, ARE APPARENTLY INTERRELATED, AND ARE INTERCONNECTED BY A HARD-SURFACE ROAD THAT LEADS TO SARY SHAGAN, APPROXIMATELY 70 NM TO THE EAST.



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TWO DEGREE SQUARE AREA  
46 TO 48 N - 69 TO 71 E

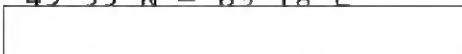
INTERFEROMETER-TYPE INSTRUMENTATION STATION, WITH ASSOCIATED AREA, CONTAINING 3 DOMED BUILDINGS, A PROBABLE MICROWAVE STATION, A TOKEN-TYPE RADAR, AND AT LEAST 30 OTHER BUILDINGS.

INTERFEROMETER-TYPE INSTRUMENTATION STATION WITH ASSOCIATED SUPPORT AREA, CONTAINING AT LEAST 27 BUILDINGS AND WITH A SOD LANDING STRIP NEARBY.

DZHEZKAZGAN  
47 48 N - 67 29 E

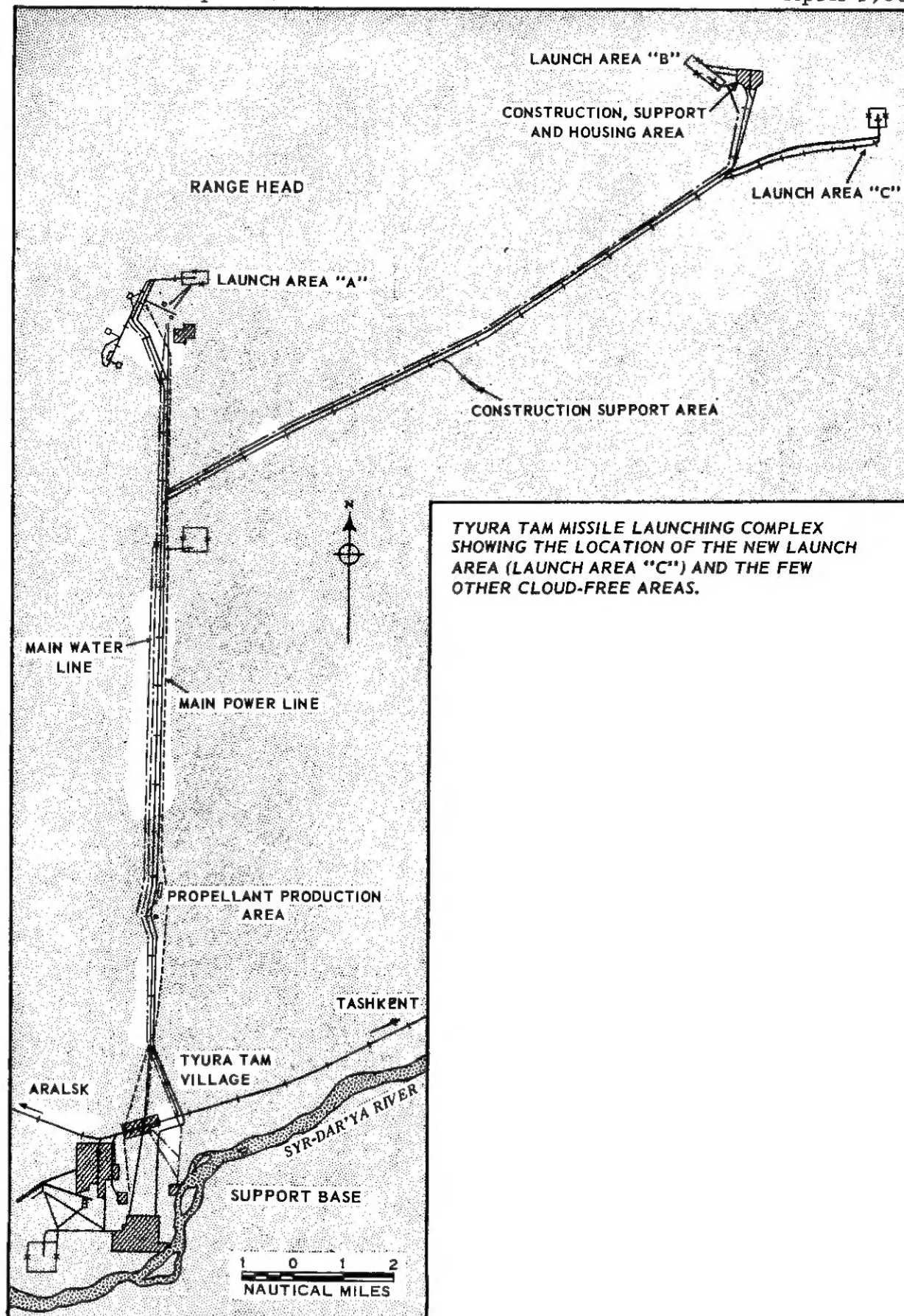
A LARGE INSTRUMENTATION SITE, POSSIBLY USED FOR MISSILE TRACKING, SIMILAR TO THE CHELKAR SITE. IT CONTAINS SEVERAL RADARS, INCLUDING ONE TOKEN TYPE, COMMUNICATIONS, AND A SUPPORT AREA WITH APPROXIMATELY 20 BUILDINGS.

TYURA TAM MISSILE LAUNCHING COMPLEX  
45 55 N - 63 18 E



A NEW LAUNCH AREA (LAUNCH AREA C) IS IN THE EARLY STAGES OF OF CONSTRUCTION AT THE TYURA TAM RANGEHEAD (SEE ACCOMPANYING FIGURE). IT IS LOCATED APPROXIMATELY 2 NM EAST OF LAUNCH AREA B, AT 46 00 N - 63 35 E. THE AREA IS SERVED BY BOTH ROAD AND RAIL, AND INCLUDES AN ASSEMBLY/CHECKOUT BUILDING 240 X 125 FT AND SEPARATELY SECURED LAUNCH FACILITIES. BECAUSE THE LAUNCH FACILITIES ARE IN THE EARLY STAGE OF CONSTRUCTION, IT CANNOT BE DETERMINED WHETHER THERE WILL BE ONE OR TWO LAUNCH POINTS OR WHETHER THE POINT OR POINTS WILL BE ROAD OR RAIL SERVED OR BOTH. THIS LAUNCH AREA IS DISTINCTLY DIFFERENT FROM LAUNCH AREAS A & B AND IS AT SURFACE LEVEL. NO INSTRUMENTATION IS APPARENT AT THIS TIME.

EXTREMELY HEAVY CLOUDS PREVAIL OVER THE REST OF THE COMPLEX. LAUNCH AREA A IS COMPLETELY OBSCURED AND ONLY A SMALL PORTION OF ITS IMMEDIATE SUPPORT AREA IS CLEAR. NO CHANGES ARE NOTED IN THIS CLEAR AREA. LAUNCH AREA B IS ALSO COMPLETELY OBSCURED BY CLOUDS. HOWEVER, THE ROAD AND WATER LINE SERVING THIS AREA DO NOT APPEAR COMPLETE. A MAJOR PORTION OF THE SUPPORT FACILITIES FOR LAUNCH AREA B IS VISIBLE AND CONSTRUCTION IS CONTINUING. ALL OTHER MAJOR FACILITIES AT THE COMPLEX ARE CLOUD COVERED.



TOP SECRET CHESS

Date of Info 9 April 1960

PAR-582-60

16 April 1960

4. DZHEZKAZGAN AIRFIELD

47 42 N - 67 44 E

AIRCRAFT OBSERVED 1 CAB, 1 UNDETERMINED LIAISON  
AIRCRAFT

4,600 X 340 FT N/S DIRT RUNWAY

4,000 X 235 FT ENE/WSW DIRT RUNWAY

COORDINATES DIFFER FROM THOSE LISTED IN ASSOTW.

5. NEW AIRFIELD 115 NM ESE OF DZHEZKAZGAN  
APPROXIMATELY 47 15 N - 70 15 E

NO AIRCRAFT OBSERVED

3,700 X 200 FT NW/SE DIRT RUNWAY

THIS APPEARS TO BE A SUPPORT AIRFIELD FOR AN  
INTERFEROMETER SITE

6. LUGOVOYE AIRFIELD

42 58 N - 72 43 E

NO AIRCRAFT OBSERVED BECAUSE OF EXTREME SMALL SCALE

TWO RUNWAYS SHOWN ON AUGUST 1957 PHOTOGRAPHY APPEAR THE  
SAME, BUT EXTREME SMALL SCALE PRECLUDES MEASUREMENT OR  
DESCRIPTION.

7. MARY AIRFIELD

37 36 N - 61 48 E

AIRCRAFT OBSERVED. 1 CRATE, 5 CAB, 7 UNDETERMINED  
LIAISON AIRCRAFT, 8 HOUND

5,000 X 290 FT ENE/WSW DIRT RUNWAY

SINCE JULY 1959 PHOTOGRAPHY THE THREE SHORT RUNWAYS  
HAVE BEEN CONVERTED TO TAXIWAYS.



ODE 4155

TOP SECRET CHSS

Date of Info 9 April 1960

PAR-582-60

16 April 1960

INSTRUMENTATION SITE 29, TTMTR

46 20 N - 64 48 E

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THIS SITE (SEE CIA/HTA/JR-4/58) APPEARS ON FAR OBLIQUE,  
EXTREMELY SMALL SCALE PHOTOGRAPHY. NO CHANGE IS APPARENT,  
BUT NO DETAILED INTERPRETATION CAN BE GIVEN.

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Date of Info 9 April 1960

PAR-582-60

16 April 1960

C. AIRFIELDS

1. ANDIZHAN AIRFIELD

40 43 N - 72 17 E



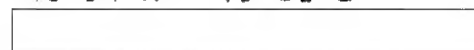
NO AIRCRAFT OBSERVED BECAUSE OF CLOUDS AND HAZF

AT LEAST 8,600 X 220 FT NE/SW BLACKTOP RUNWAY CLEAR  
OF SNOW

CLOUDS AND HAZE PRECLUDE DESCRIPTION OF FACILITIES UNDER  
CONSTRUCTION SHOWN ON AUGUST 1957 PHOTOGRAPHY

2. BALKHASH AIRFIELD

46 54 N - 75 01 E



NO AIRCRAFT OBSERVED

6,300 X 330 FT NE/SW DIRT RUNWAY  
4,900 X 400 FT NE/SW DIRT RUNWAY  
4,200 X 500 FT NE/SW DIRT RUNWAY

NO SIGNIFICANT CHANGE SINCE AUGUST 1957 PHOTOGRAPHY

3. DOLON AIRFIELD

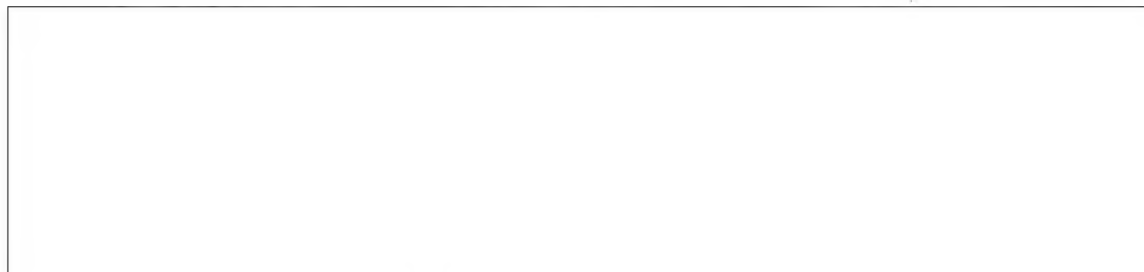
50 33 N - 79 13 E



AIRCRAFT OBSERVED 14 BEAR, 8 BADGER, 2 BULL, 1 CAR

13,000 X 225 FT E/W CONCRETE RUNWAY

A WEAPONS LOADING AREA IS UNDER CONSTRUCTION AT THE  
AIRFIELD.



Date of Info 9 April 1960

PAR-582-60

16 April 1960

8. MARY NORTH AIRFIELD

37 39 N - 61 49 E



AIRCRAFT OBSERVED 72 FAGOT/FRESCO, 1 CREEK

8,200 X 165 FT N/S BLACKTOP RUNWAY

NO APPARENT CHANGE SINCE JULY 1959 PHOTOGRAPHY. ASSOTW  
LISTS RUNWAY AS 10,500 X 180 FT.

9. MARY NORTHEAST AIRFIELD

37 37 N - 61 54 E



AIRCRAFT OBSERVED 33 FAGOT/FRESCO

7,000 X 185 FT N/S BLACKTOP RUNWAY

NO APPARENT CHANGE SINCE JULY 1959 PHOTOGRAPHY

10. NEW AIRFIELD 15 NM SW OF SARY SHAGAN

46 01 N - 73 35 E



AIRCRAFT OBSERVED 9 BADGER, 14 BEAGLE, 3 FLASHLIGHT,  
14 FAGOT/FRESCO, 1 CAMP, 4 CRATE, 5 CAB, 9 COLT, 9  
UNDETERMINED LIAISON AIRCRAFT, 5 HOUND

9,850 X 185 FT NE/SW CONCRETE RUNWAY

THIS AIRFIELD IS IN LATE STAGES OF CONSTRUCTION. RUNWAY  
IS COMPLETE AND OPERATIONAL, TAXIWAY AT EAST END OF  
RUNWAY IS UNDER CONSTRUCTION, LARGE SUPPORT AREAS ARE  
IN VARIOUS STAGES OF CONSTRUCTION. ONE MEDIUM SIZED  
HANGAR COMPLETE AND ONE LARGE HANGAR UNDER CONSTRUCTION.  
A LARGE POSSIBLE AIR-TO-SURFACE MISSILE COMPLEX IS UNDER  
CONSTRUCTION ADJACENT TO THE AIRFIELD.

11. DIRT STRIP 18 NM SSW OF SARY SHAGAN

45 56 N - 73 35 E



STRIP IS 16,300 X 260 FT, ORIENTED NE/SW. IT IS LOCATED  
4.5 NM SE OF THE NEW AIRFIELD 18 NM SW OF SARY SHAGAN.  
NO AIRCRAFT WERE OBSERVED.

Date of Info 9 April 1960

16 April 1960

12. SEMIPALATINSK AIRFIELD

50 21 N - 80 14 E

AIRCRAFT OBSERVED 1 BULL, 2 CRATE, 3 CAB, 6 PROBABLE  
COLT, 7 PROBABLE CREEK

10,500 X 270 FT ENE/WSW CONCRETE RUNWAY  
3,400 X 270 FT N/S CONCRETE RUNWAY



13. NEW AIRFIELD 5 NM SE OF SEMIYARSKOYE

50 48 N - 78 30 E

AIRCRAFT OBSERVED 5 CAB

6,300 X 200 FT NW/SE RUNWAY, TYPE OF SURFACE UNDETERMINED  
DUE TO SNOW COVER  
4,100 X 200 FT ENE/WSW DIRT RUNWAY



14. AIRFIELDS PREVIOUSLY REPORTED BUT NOT CONFIRMED BECAUSE  
OF HAZE OR OVERCAST

KUGAY AIRFIELD  
40 58 N - 72 04 E

STALINO AIRFIELD  
40 43 N - 72 03 E

D. MINING AND MILLING

DESCRIPTION OF THE MAIN MINING AND MILLING ACTIVITIES  
IN THE FERGANA VALLEY AND MAYLI SAY AREAS IS PRECLUDED BY  
POOR COVERAGE RESULTING, VARIOUSLY, FROM HAZE, CLOUDS, AND  
EXTREMELY SMALL SCALE. NOTED AT VARIOUS LOCATIONS ALONG  
THE FLIGHT PATH ARE ACTIVITIES RANGING FROM SMALL  
PROSPECTING-TYPE TO LARGE OPEN-PIT MINING OPERATIONS.

Date of Info 9 April 1960

PAR-582-60

16 April 1960

E. MAJOR INSTALLATIONS & AREAS

BALKHASH

46 49 N - 75 00 E

[REDACTED]

GOOD COVERAGE OF THE ENTIRE CITY, AFFECTED ONLY BY SMOKE FROM THE BALKHASH COPPER SMELTING PLANT. CITY APPEARS BASICALLY UNCHANGED SINCE AUGUST 1957 PHOTOGRAPHY. A PROBABLE BY-PRODUCT PLANT HAS BEEN ADDED TO THE COPPER SMELTING PLANT. THERE IS A NEW HOUSING DEVELOPMENT IN THE NORTH SECTION OF THE CITY.

DZHEZKAZGAN COMPLEX

47 48 N - 67 44 E

[REDACTED]

EXCELLENT COVERAGE SHOWS HOUSING AREAS AND RAIL-SERVED INDUSTRIES, INCLUDING A LARGE COPPER ORE DRESSING PLANT, AND COPPER MINING.

KARKARALINSK

49 24 N - 75 28 E

[REDACTED]

THE CITY IS COVERED BY GOOD PHOTOGRAPHY, WITH SCATTERED CLOUDS IN THE ENVIRONS. LOCATED APPROXIMATELY 2 NM SW OF THE CITY IS A PROBABLE MISSILE TRACKING STATION SIMILAR TO TWO OTHER STATIONS, AT CHELKAR AND DZHEZKAZGAN. THE STATION CONSISTS OF THREE AREAS -- ONE AREA HAS TWO TOKEN-TYPE RADARS, ONE HAS TWO GROUPS OF THREE VEHICLES AND ASSOCIATED BUILDINGS, AND THE THIRD AREA HAS A SUPPORT FUNCTION.

MARY

37 36 N - 61 51 E

[REDACTED]

CITY IS COMPLETELY COVERED BY GOOD PHOTOGRAPHY, WHICH SHOWS NEW CONSTRUCTION, OPEN STORAGE, LIGHT INDUSTRIES, AND MODERATE RAIL TRAFFIC.

ODE 4155

TOP SECRET CHESS

PAR-582-60

Date of Info 9 April 1960

16 April 1960

SEMIPALATINSK

50 25 N - 80 15 E

GOOD COVERAGE OF THE ENTIRE CITY. THE CEMENT PLANT IN THE SOUTH SECTION OF THE CITY, WHICH APPEARED UNDER CONSTRUCTION ON AUGUST 1957 PHOTOGRAPHY, IS IN OPERATION. THERE HAS BEEN A GENERAL URBAN EXPANSION IN THE NORTH AND EAST SECTIONS OF THE CITY.

#### F. OTHER INSTALLATIONS & AREAS

CHAGAN

50 37 N - 79 15 E

THE CITY, LOCATED APPROXIMATELY 3 NM NORTH OF DOLON AIRFIELD, IS COVERED BY CLEAR OBLIQUE PHOTOGRAPHY. AN INCREASE IS EVIDENT IN THE NUMBER OF BUILDINGS AND FACILITIES OVER THOSE APPEARING ON 1957 PHOTOGRAPHY.

APPROXIMATELY 5 NM SE OF CHAGAN, AT 50 35N - 79 22E, IS A RAIL SPUR AND ASSOCIATED FACILITIES, ALSO COVERED BY AUGUST 1957 PHOTOGRAPHY (SEE CIA/HTA/M-18/58). THE NEW COVERAGE SHOWS THE ADDITION OF 3 RECTANGULAR BUILDINGS, ONE OF WHICH IS UNDER CONSTRUCTION.

CHARSKIY

49 34 N - 81 05 E

GOOD QUALITY FAR OBLIQUE PHOTOGRAPHY SHOWS A SMALL RAILROAD YARD AND AN AGRICULTURAL STORAGE YARD IN THE BUILT-UP AREA OF THIS TOWN.

#### G. MILITARY INSTALLATIONS

MILITARY-COMPLEX, MARY

37 35 N - 61 51 E

THIS COMPLEX, MADE UP OF 3 MILITARY AREAS, CONTAINS APPROXIMATELY 33 TWO-STORY BARRACKS, 118 VEHICLE STORAGE AND MAINTENANCE BUILDINGS, NUMEROUS ADMINISTRATION AND SUPPORT BUILDINGS, AT LEAST 350 VEHICLES, AND APPROXIMATELY 50 PROBABLE ARTILLERY PIECES.

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